University of California, Berkeley
Physics H7A, Fall 1998 (Strovink)

General Information (1 Sep 98)

Instructors: Prof. Mark Strovink, 437 LeConte; (LBL) 486-7087; (home, before 10) 486-8079; (UC) 642-9685. Email: `strovink@lbl.gov`. Web: `http://d0lbln.lbl.gov/`. Office hours: M 3:15-4:15, Tu 10-11, Th 10-11. Mr. David Bacon, 214 LeConte; (UC) 642-5430; (home, before 1 AM) 666-9867. Email: `dabacon@wco.com`. Office hours: W 12-2. Ms. Elizabeth Wu, 214 LeConte; (UC) 642-5430. Email: `ecmwu@euler.berkeley.edu`. Office hours in 262 LeConte: M 10-11. You may also get help in the 7A Course Center, 262 LeConte.

Lectures: Tu-Th 11:10-12:30, 2 LeConte. Lecture attendance is essential, since not all of the course content can be found in either of the course texts.

Labs: In the second week, in **2**70 LeConte, please enroll in one of *only 3* special H7A lab sections [(A) #134, M 4-6; (B) #241, Th 4-6; or (C) #312, F 8-10]. Section 134 is taught by Ms. Wu and Sections 241 and 312 are taught by Mr. Bacon. If you can make more than one of these lab (and section, see below) slots, please attempt to enroll in the earliest of these lab slots. Depending on crowding, you may be asked to move to a later lab. During "off" weeks not requiring lab apparatus, your lab section will still meet, in (#134) 336 LeConte, (#241) 395 LeConte, or (#312) 335 LeConte.

Discussion Sections: Beginning in the second week, please enroll in *the only one* of the 1 hr H7A discussion sections corresponding to your H7A lab section: (A) #134, W 1-2, 343 LeConte; (B) #241, Tu 4-5, 395 LeConte; (C) #312, W 8-9, 385 LeConte. You are especially encouraged to attend discussion section regularly. There you will learn techniques of problem solving, with particular application to the assigned exercises.

Texts (both required): Kleppner/Kolenkow, *An Introduction to Mechanics*, (McGraw-Hill, 1973). A.P. French, *Vibrations and Waves*, Paper Edition (Norton, 1971).

Problem Sets: Twelve problem sets are assigned and graded, with solutions provided as part of the Syllabus. They are due on Wednesday at 5 PM on weeks (including Thanksgiving) in which there is no exam, beginning in week 2. Deposit problem sets in the box labeled "H7A" outside 201 LeConte. You are encouraged to attempt all the problems. Students who do not do them find it almost impossible to learn the material and to succeed on the examinations. Work independently. Credit for collective effort, which is easy to identify, will be divided among the collectivists. Late papers will not be graded. Your lowest problem set score will be dropped, in lieu of due date extensions for any reason.

Syllabus: H7A has two syllabus cards. The first card is mandatory; it will be collected at the time of the first in-class examination. This card pays for the experiment descriptions and instructions that you will receive from your GSI at the beginning of each laboratory. The second syllabus card is optional. It entitles you to pick up printed solutions to the problem set assignments from Copy Central. These solutions will also be made available on the Web. Both cards will be available for purchase at Copy Central beginning in the second week of class.

Exams: There will be two 80-minute in-class examinations and one 3-hour final examination. Before confirming your enrollment in this class, please check that its final Exam Group 9 does not conflict with the Exam Group for any other class in which you are enrolled. Please verify that you will be available for both in-class examinations (Th 24 Sep and Th 5 Nov, 11:10-12:30), and for the final examination, F 11 Dec, 5-8 PM. Except for unforeseeable emergencies, it will not be possible for these in-class or final exams to be rescheduled. Passing H7A requires passing the final exam.

Grading: 35% in-class examinations; 20% problem sets; 40% final exam; 5% lab. Grading is not "curved" -- it does not depend on your performance relative to that of your H7A classmates. Rather it is based on comparing your work to that of a generation of earlier lower division Berkeley physics students, with due allowance for educational trends.